

## P4 Value Series

# P4 Value Dry Pressure

Range: 0.1 to 25" W.C.  
 0-5VDC/10VDC or 4-20 mA loop & 3-wire powered versions  
 LCD option & LED status indication  
 Remote & manual zero function  
**PATENTED DESIGN**

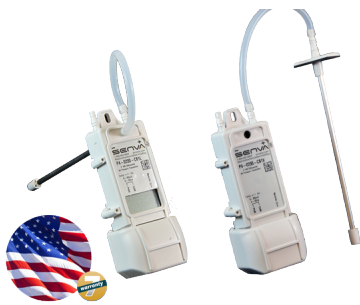


### DESCRIPTION

The P4 dry media pressure transmitter features fixed ranges optimized for building (zone) pressure, filter measurement, and static duct applications. Innovative static probe integrates with unit or can be mounted remotely for static pressure. **PATENTED DESIGN**

### APPLICATIONS

- Building (zone) pressure
- Filter condition measurement
- Duct/static
- OEM HVAC



*Probe transforms for duct or remote applications. Made in USA. 7yr warranty!*



*High density DIN mounting saves valuable panel space*



*Conduit ready*

### FEATURES

- Duct, filter, and room pressure with a single unit with RP-6 probe addition
- LCD option for set-up and reference
- Non-position sensitive for easy placement accuracy
- 0-5VDC/10VDC or 4-20 mA loop or 3-wire powered versions
- DIN mount flat or side to conserve panel space
- Conduit cover for 3/8" flex connectors...no extra parts required
- LED: Power heartbeat, auto-zero complete, 110% over pressure; facilitates locating sensor in ductwork

ORDERING



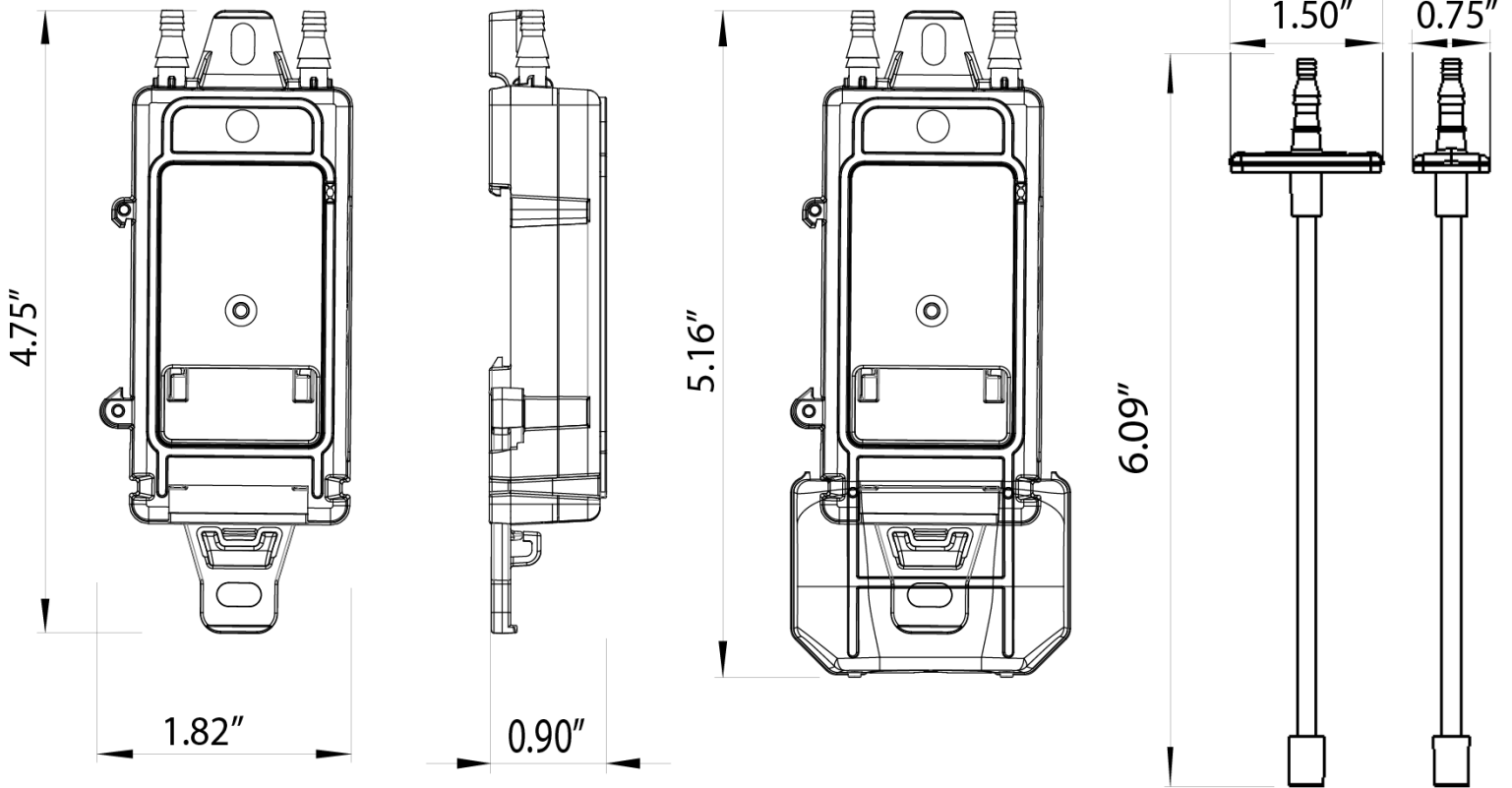
|  |   |  |   |  |  |
|--|---|--|---|--|--|
| <p><b>P4</b> - <input type="checkbox"/> - <input type="checkbox"/></p> <p><b>Fixed Range*</b></p> <p>0005 = 0-0.05 "w.c.    0025Pa = 0-25 Pa<br/>         0010 = 0-0.10 "w.c.    0050Pa = 0-50 Pa<br/>         0025 = 0-0.25 "w.c.    0100Pa = 0-100 Pa<br/>         0050 = 0-0.50 "w.c.    0300Pa = 0-300 Pa<br/>         0100 = 0-1.0 "w.c.    0500Pa = 0-500 Pa<br/>         0150 = 0-1.5 "w.c.    1000Pa = 0-1000 Pa<br/>         0250 = 0-2.5 "w.c.    1600Pa = 0-1600 Pa<br/>         0300 = 0-3.0 "w.c.    2500Pa = 0-2500 Pa<br/>         0500 = 0-5.0 "w.c.    3000Pa = 0-3000 Pa<br/>         0750 = 0-7.5 "w.c.    5000Pa = 0-5000 Pa<br/>         1000 = 0-10 "w.c.<br/>         1500 = 0-15 "w.c.<br/>         2500 = 0-25 "w.c.<br/>         5000 = 0-50 "w.c.</p> | <p><input type="checkbox"/></p> <p><b>Output</b></p> <p>A = 0-5VDC, 3-Wire<br/>         B = 0-10VDC, 3-Wire<br/>         C = 4-20mA, 2-wire<br/>         D = 4-20mA, 3-wire</p> | <p><input type="checkbox"/></p> <p><b>Uni or Bi</b></p> <p>U = Uni-directional<br/>         B = Bi-directional</p> | <p><input type="checkbox"/></p> <p><b>Accuracy**</b></p> <p>1 = 1.00% of range<br/>         2 = 0.25% of range NIST<br/>         5 = 0.50% of range NIST<br/>         N = 1.00% of range NIST</p> | <p><input type="checkbox"/></p> <p><b>Display</b></p> <p>L = LCD<br/>         X = No Display</p> | <p><input type="checkbox"/></p> <p><b>Duct Probe</b></p> <p>P = Duct Probe<br/>         X = No Probe</p> |
|--|---|--|---|--|--|

*Example part number P4-0500-CU2LP is 4-20mA (2-wire), 0.25% accuracy, uni-directional 0-5" WC sensor with LCD display and Duct Probe.*

*\*Other Fixed Ranges Available Upon Request (mmw.c, etc), Please Consult Factory*

*\*\*0.25% accuracies available on 0.5" w.c. and greater, 0.5% accuracy available on 0.1" w.c. and greater (or equivalent Pa ranges)*

DIMENSIONS



**Warning:** The datasheet is designed for reference only. Refer to installation instructions that accompany the product and heed all safety instructions. Product improvement is a continuing process at Senva. Changes may occur to products without prior notice.

| SPECIFICATIONS        |  |   |  |
|-----------------------|--|---|--|
| Power Supply          |  | 12-30VDC/24VAC(1), 30mA max   |  |
| Output type           | Outputs Available                                  | 4-20mA loop powered, 4-20 mA 3-wire, 0-5VDC, 0-10VDC                    |  |
| Fixed Ranges          | Multiple Fixed Ranges (Inches of w.c. and Pascals) | 0.1" w.c. up to 25" w.c. models<br>1250 Pa up to 6250 Pa models         |  |
| Operating Temperature | Operating range                                    | -4 to 140F (-20 to 60°C)  |  |
|                       | Compensated range                                  | -4 to 140F (-20 to 60°C)  |  |
| Media compatibility   |  | Dry, oil-free air, N2   |  |
| Sensor Type           |  | MEMS silicon piezoresistive; precision calibrated                       |  |
| Sensor Performance    | Accuracy 1.00%                                     | ±1.00% of range   |  |
|                       | Accuracy 0.25%(2)                                  | ±0.25% of range; 7-point NIST calibrated                                |  |
|                       | Accuracy 0.50%(2)                                  | ±0.50% of range; 7-point NIST calibrated                                |  |
|                       | Zero Tolerance                                     | Included in accuracy specification                                      |  |
|                       | Span Tolerance (3)                                 | ±1.00%  |  |
|                       | Zero Drift (1 year)                                | 0.004"WC/year max. 0.4% for units >0.5" w.c.                            |  |
|                       | Auto-zero input                                    | Push-button and contact closure   |  |
|                       | Thermal Shift (Zero and Span)                      | 0.02% FSO/°C (0.01%FSO/°F) measured from 22°C (72°F)                    |  |
|                       | Overpressure                                       |   | up to 5" models: 41.5" w.c.; 10" models: 133" w.c.;<br>25" models: 332" w.c. |
|                       |  | Max Static Line Pressure  | up to 5" models: 41.5" w.c.; 10" models: 133" w.c.; 25" models: 332" w.c.    |
|                       | Burst Pressure                                     | up to 5" models: 83" w.c.; 10" models: 166" w.c.; 25" models: 415" w.c. |  |
|                       | Position Sensitivity                               | Non-position sensitive  |  |
| Agency                | Compliance   | CE, RoHS  |  |
| Enclosure             | Flammability                                       | UL94 5VB  |  |
|                       | Environmental                                      | NEMA 1  |  |

(1) One side of transformer secondary is connected to signal common. Dedicated transformer is recommended.

(2) Accuracy includes non-linearity, hysteresis, and repeatability at 70°F.

(3) Span tolerance is ±1% ±0.005inWC for models less than 0.10inWC or equivalent pressure range.

\* Product improvement is a continual process at Senva and product features and specification may change without prior notice. Refer to instructions that accompany the product for installation and wiring.